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FEDERAL LAND MANAGEMENT

The Extent of Oil and Gas Activities on BLM and Forest Service Lands

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GAO

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Resources, Community, and
Economic Development Division

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April 11, 1990

The Honorable Dale Bumpers
Chairman, Subcommittee on Public Lands,
National Parks and Forests
Committee on Energy and Natural Resources
United States Senate

The Honorable Nick J. Rahall, II
Chairman, Subcommittee on Mining and
Natural Resources
Committee on Interior and Insular Affairs
House of Representatives

In response to your March 2, 1988, letter and subsequent discussions with your offices, this fact sheet presents information on the extent of oil and gas leasing and development on Bureau of Land Management (BLM) and Forest Service lands. Specifically, this fact sheet presents summary statistics on oil and gas activity for 141 BLM resource areas and 156 national forests. Additionally, it provides detailed information on the extent of oil and gas leasing and drilling for each BLM resource area and BLM lands in Alaska and 31 eastern states, as well as each national forest.

In summary, we found that although some portion of most BLM and Forest Service lands have been leased, less than half of the leases have been drilled. For example, out of 141 BLM resource areas, 126 resource areas have leased all or a portion of their lands. Of these resource areas, 69 have had producing or exploratory wells drilled. Of the 156 national forests, 113 have leased all or a portion of their lands. Of these forests, 46 have had producing or exploratory wells drilled.

Section 1 of this fact sheet provides a summary of the oil and gas activity in the BLM resource areas and national forests. Section 2 provides detailed information on the number of oil and gas leases issued and wells drilled in

each of the 141 BLM resource areas, as well as BLM lands in Alaska and in 31 eastern states. Section 3 provides the same information for the 156 national forests.

To prepare this fact sheet, we developed a standardized data collection instrument with input from both BLM and Forest Service officials. Because little of the information that we requested was routinely compiled by these agencies, we developed this information with the assistance of the BLM state offices and Forest Service headquarters and regional offices. Although we reviewed the data after they were compiled by the agencies and identified and resolved inconsistencies, we did not verify the data against the source within the agencies. For BLM, each state office provided the requested data primarily on the basis of their land use plans and automated data bases such as the Automated Land and Mineral Record System, the Quarterly Engineering Reports, and the Automated Inspection Records System. For the Forest Service, the data were derived from its land use plans or from field office files. Unless otherwise indicated, the data are current through fiscal year 1988. We conducted our review from May 1988 to October 1989.

This fact sheet complements our planned report which will deal with the broader issue of the need for better oil and gas information to support land use decisions. We expect to issue that report within the next few months.

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As the Chairmen's offices requested, we did not obtain official agency comments on a draft of this fact sheet. However, BLM and the Forest Service were integrally involved in the development of this information, and as such, are familiar with the contents of this fact sheet. As arranged with your offices, unless you publicly announce its contents earlier, we plan no further distribution of this fact sheet until 30 days from the date of this letter. At that time, we will provide copies to the Secretaries of Agriculture and Interior and other interested parties.

If you have any questions about this fact sheet, please contact me at (202) 275-7756. Major contributors to this fact sheet are listed in appendix I.

James Duffus III
Director, Natural Resources
Management Issues

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ABBREVIATIONS

BLM	Bureau of Land Management

SECTION 1

SUMMARY OF OIL AND GAS ACTIVITIES IN BLM RESOURCE AREAS AND NATIONAL FORESTS

Table 1.1 shows the level of oil and gas activity on the 297 resource areas and national forests. Of the 141 BLM resource areas, 69 have had producing or exploratory wells drilled. The other 72 resource areas have had no oil and gas development activity. Of the 156 national forests, 46 have had exploratory or producing wells drilled. The remaining 110 forests have not experienced oil and gas development.

Table 1.1: Summary of Oil and Gas Activity in BLM Resource Areas and National Forests

Level of oil and gas activity	Number of BLM resource areas	Number of national forests
Areas with production	50	42
Areas with exploration but no production[a]	19	4
Leased areas with no production or exploration	57	67
Unleased areas	15	43
Total	141	156

Note: Table 1.1 does not include information from BLM's Eastern States Office or Alaska Office because neither of these areas is divided into resource areas.

[a]Exploration for fiscal years 1986 through 1988.

Sections 2 and 3 provide more detail regarding the level of oil and gas activity in each of the BLM resource areas and national forests. Section 2 also provides information regarding oil and gas activity for the 31 states covered by BLM's Eastern States Office and the Alaska State Office.

Table 2.1: Alaska

STATUS OF BLM OIL AND GAS LEASING/DRILLING ACTIVITY
BY STATE THROUGH FISCAL YEAR 1988

District office	Acreage[a]		Acreage open/closed to leasing[ab]		
	Surface	Subsurface	Open to leasing	Nondiscretionary closures	Discretionary closures
Anchorage	90,584,000	104,859,000	207,000	104,652,000	0
Glennallen	103,695,000	103,695,000	2,970,000	100,725,000	0
Arctic (Corridor)	91,775,000	91,775,000	23,000,000	68,775,000	0
Kobuk (Central Yukon)	94,159,000	94,159,000	4,490,000	89,669,000	0
Steese-White Mountains	107,270,000	107,270,000	0	107,270,000	0
Total	487,483,000	501,758,000	30,667,000	471,091,000	0

Number of leases	Acres leased	Number of Wells[c]					
		Exploratory	Developmental	Producing	Capable of production	Other	Pending and approved abandonments
139	146,402	0	6	72	39	22	11
4,454	659,374	0	0	0	0	0	0
24	558,506	0	0	0	0	0	0
2,032	1,042,648	0	0	0	0	0	0
0	0	0	0	0	0	0	0
6,649	2,406,930	0	6	72	39	22	11

[a]All acreage figures except for the "acres leased" column are rounded to the nearest thousand. The subsurface mineral estate acreage is generally greater than the surface acreage because the federal government owns the mineral rights to some privately owned lands.

[b]"Acreage open/closed to leasing" is estimated. "Nondiscretionary closures" are areas closed to leasing by law, secretarial decision, or executive order. "Discretionary closures" result from decisions made as part of the agency's land use planning process.

[c]Columns for wells "Producing" or "Capable of Production" include oil and gas wells only. Wells capable of production are currently under suspension. The column for "Other" wells include injection, water supply, and oil and gas storage agreement wells. Well data for "Exploratory," "Developmental," and "Pending and Approved Abandonments" are for fiscal years 1986-88.

Table 2.2: Arizona

Resource area	Acreage[a]		Acreage open/closed to leasing[ab]		
	Surface	Subsurface	Open to leasing	Nondiscretionary closures	Discretionary closures[d]
Shivwits	1,397,000	1,458,000	1,338,000	121,000	
Vermillion	1,341,000	1,413,000	1,299,000	113,000	
Kingman	2,056,000	2,652,000	2,116,000	536,000	
Lower Gila	3,402,000	3,787,000	2,774,000	1,013,000	
Phoenix	691,000	2,079,000	1,988,000	91,000	
San Simon	896,000	1,181,000	1,111,000	70,000	
Gila	463,000	679,000	571,000	108,000	
Yuma	1,192,000	989,000	635,000	354,000	
Havasu	See Yuma	See Yuma	See Yuma	See Yuma	
Total	11,438,000	14,238,000	11,832,000	2,406,000	

Number of leases	Acres leased	Number of Wells[c]					
		Exploratory	Developmental	Producing	Capable of production	Other	Pending and approved abandonments
10	9,445	0	0	0	0	0	0
97	125,880	4	0	0	0	0	4
32	80,024	0	0	0	0	0	0
13	27,682	0	0	0	0	0	0
23	59,796	0	0	0	0	0	0
145	501,297	0	0	0	0	0	0
14	34,527	0	0	0	0	0	0
38	42,715	2	0	0	0	0	0
See Yuma	See Yuma	See Yuma	0	0	0	0	0
372	881,366	6	0	0	0	0	4

[a]All acreage figures except for the "acres leased" column are rounded to the nearest thousand. The subsurface mineral estate acreage is generally greater than the surface acreage because the federal government owns the mineral rights to some privately owned lands.

[b]"Acreage open/closed to leasing" is estimated. "Nondiscretionary closures" are areas closed to leasing by law, secretarial decision, or executive order. "Discretionary closures" result from decisions made as part of the agency's land use planning process.

[c]Columns for wells "Producing" or "Capable of Production" include oil and gas wells only. Wells capable of production are currently under suspension. The column for "Other" wells include injection, water supply, and oil and gas storage agreement wells. Well data for "Exploratory," "Developmental," and "Pending and Approved Abandonments" are for fiscal years 1986-88.

[d]The "discretionary closures" column remains without reported data because areas closed to leasing have not yet been identified.

Table 2.3: California

Resource area	Acreage[a]		Acreage open/closed to leasing[ab]		
	Surface	Subsurface	Open to leasing	Nondiscretionary closures	Discretionary closures
Caliente	537,000	1,035,000	956,000	79,000	0
Bishop	775,000	787,000	512,000	275,000	0
Folsom	295,000	599,000	584,000	13,000	2,000
Hollister	316,000	792,000	768,000	24,000	0
Eagle Lake	997,000	1,049,000	658,000	390,000	1,000
Alturas	493,000	609,000	552,000	57,000	0
Surprise	1,411,000	1,438,000	1,112,000	326,000	0
Arcata	112,000	203,000	134,000	69,000	0
Clear Lake	202,000	414,000	373,000	39,000	2,000
Redding	354,000	535,000	533,000	1,000	1,000
Ridgecrest	2,552,000	2,560,000	1,043,000	1,517,000	0
Indio	1,755,000	2,030,000	1,215,000	815,000	0
El Centro	1,188,000	1,419,000	1,114,000	301,000	4,000
Barstow	3,360,000	3,623,000	2,143,000	1,480,000	0
Needles	4,258,000	4,352,000	1,870,000	2,463,000	19,000
Total	18,605,000	21,445,000	13,567,000	7,849,000	29,000

Number of leases	Acres leased	Number of Wells[c]					
		Exploratory	Developmental	Producing	Capable of production	Other	Pending and approved abandonments
1,048	515,000	9	297	3,323	1,590	393	91
0	0	0	0	0	0	0	0
29	2,000	1	0	0	0	0	0
289	193,000	3	18	89	170	18	6
1	1,000	0	0	0	0	0	0
0	0	0	0	0	0	0	0
1	8,000	0	0	0	0	0	0
1	1,000	0	0	0	0	0	0
63	64,000	0	2	0	0	0	0
19	7,000	0	0	0	0	0	0
34	112,000	0	0	0	0	2	0
10	8,000	1	7	64	82	36	7
29	116,000	0	0	0	0	0	0
13	21,000	4	0	0	0	0	0
3	7,000	0	0	0	0	0	0
1,540	1,055,000	18	324	3,476	1,842	449	104

[a]All acreage figures except for the "acres leased" column are rounded to the nearest thousand. The subsurface mineral estate acreage is generally greater than the surface acreage because the federal government owns the mineral rights to some privately owned lands.

[b]"Acreage open/closed to leasing" is estimated. "Nondiscretionary closures" are areas closed to leasing by law, secretarial decision, or executive order. "Discretionary closures" result from decisions made as part of the agency's land use planning process.

[c]Columns for wells "Producing" or "Capable of Production" include oil and gas wells only. Wells capable of production are currently under suspension. The column for "Other" wells include injection, water supply, and oil and gas storage agreement wells. Well data for "Exploratory," "Developmental," and "Pending and Approved Abandonments" are for fiscal years 1986-88.

Table 2.4: Colorado

Resource area	Acreage[a]		Acreage open/closed to leasing[ab]		
	Surface	Subsurface	Open to leasing	Nondiscretionary closures	Discretionary closures
Little Snake	2,104,000	2,743,000	2,267,000	329,000	147,000
White River	1,845,000	2,209,000	2,130,000	79,000	0
Kremmling	2,047,000	2,312,000	2,123,000	92,000	97,000
Uncompahgre	2,003,000	2,260,000	2,086,000	174,000	0
Gunnison Basin	2,328,000	2,503,000	2,402,000	101,000	0
San Juan	2,308,000	2,608,000	2,263,000	345,000	0
San Luis	2,180,000	2,276,000	1,841,000	435,000	0
Royal Gorge	2,930,000	5,337,000	4,863,000	473,000	1,000
Northeast	1,001,000	1,442,000	1,327,000	113,000	2,000
Grand Junction	1,725,000	1,906,000	1,458,000	448,000	0
Glenwood Springs	1,900,000	2,112,000	1,240,000	861,000	11,000
Total	22,371,000	27,708,000	24,000,000	3,450,000	258,000

Note: Oil and gas leasing and drilling activity includes Forest Service lands.

Number of leases	Acres leased	Number of Wells[c]					
		Exploratory	Developmental	Producing	Capable of production	Other	Pending and approved abondonments
1,849	1,729,161	54	10	388	372	41	92
1,591	1,355,897	42	7	783	387	393	94
137	189,599	3	4	47	34	39	4
277	465,512	3	0	9	2	2	1
16	86,348	0	0	0	0	0	293
795	830,154	24	25	152	66	24	8
182	909,931	2	0	0	0	0	3
6,922	714,077	3	7	53	23	32	80
804	374,796	20	46	313	66	93	263
1,074	931,510	1	4	139	305	14	11
487	601,836	2	10	28	47	9	3
14,134	8,188,821	154	113	1,912	1,302	647	852

[a]All acreage figures except for the "acres leased" column are rounded to the nearest thousand. The subsurface mineral estate acreage is generally greater than the surface acreage because the federal government owns the mineral rights to some privately owned lands.

[b]"Acreage open/closed to leasing" is estimated. "Nondiscretionary closures" are areas closed to leasing by law, secretarial decision, or executive order. "Discretionary closures" result from decisions made as part of the agency's land use planning process.

[c]Columns for wells "Producing" or "Capable of Production" include oil and gas wells only. Wells capable of production are currently under suspension. The column for "Other" wells include injection, water supply, and oil and gas storage agreement wells. Well data for "Exploratory," "Developmental," and "Pending and Approved Abandonments" are for fiscal years 1986-88.

Table 2.5: Idaho

Resource area	Acreage[a]		Acreage open/closed to leasing[ab]		
	Surface	Subsurface	Open to leasing	Nondiscretionary closures	Discretionary closures
Cascade	488,000	488,000	457,000	31,000	0
Owyhee	1,352,000	1,352,000	1,352,000	0	0
Bruneau	2,054,000	2,054,000	2,054,000	0	0
Jarbidge	1,686,000	1,474,000	1,258,000	216,000	0
Deep Creek	385,000	385,000	385,000	0	0
Snake River (Cassia)	1,026,000	1,129,000	1,129,000	0	0
Emerald Empire	115,000	324,000	297,000	27,000	0
Cottonwood (Chief Joseph)	134,000	184,000	173,000	12,000	0
Pocatello	264,000	393,000	355,000	28,000	11,000
Big Butte	1,420,000	1,640,000	933,000	707,000	0
Medicine Lodge	789,000	931,000	777,000	148,000	7,000
Lemhi	460,000	460,000	445,000	0	15,000
Challis	833,000	843,000	843,000	0	0
Monument	1,179,000	1,180,000	854,000	325,000	1,000
Bennett Hills	649,000	649,000	588,000	61,000	d
Total	12,834,000	13,486,000	11,900,000	1,555,000	34,000

Number of leases	Acres leased	Number of Wells[c]					
		Exploratory	Developmental	Producing	Capable of production	Other	Pending and approved abandonments
17	96,903	0	0	0	0	0	0
6	21,486	0	0	0	0	0	0
20	31,445	0	0	0	0	0	0
17	10,460	0	0	0	0	0	0
3	838	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
91	257,966	0	0	0	0	0	0
19	71,802	0	0	0	0	0	0
120	271,057	0	0	0	0	0	0
1	9,781	0	0	0	0	0	0
19	114,605	0	0	0	0	0	0
6	35,253	0	0	0	0	0	0
0	0	0	0	0	0	0	0
319	921,596	0	0	0	0	0	0

[a]All acreage figures except for the "acres leased" column are rounded to the nearest thousand. The subsurface mineral estate acreage is generally greater than the surface acreage because the federal government owns the mineral rights to some privately owned lands.

[b]"Acreage open/closed to leasing" is estimated. "Nondiscretionary closures" are areas closed to leasing by law, secretarial decision, or executive order. "Discretionary closures" result from decisions made as part of the agency's land use planning process.

[c]Columns for wells "Producing" or "Capable of Production" include oil and gas wells only. Wells capable of production are currently under suspension. The column for "Other" wells include injection, water supply, and oil and gas storage agreement wells. Well data for "Exploratory," "Developmental," and "Pending and Approved Abandonments" are for fiscal years 1986-88.

[d]Less than 500 acres.

Table 2.6: Montana, South Dakota, and North Dakota

Resource area	Acreage[a]		Acreage open/closed to leasing[ab]		
	Surface	Subsurface	Open to leasing	Nondiscretionary closures	Discretionary closures
Montana					
Headwaters	311,000	655,000	606,000	39,000	10,000
Dillon	985,000	1,457,000	1,326,000	129,000	2,000
Garnet	147,000	205,000	175,000	28,000	2,000
Judith	750,000	1,032,000	968,000	50,000	14,000
Phillips	1,090,000	1,541,000	1,472,000	37,000	32,000
Valley	1,022,000	1,237,000	1,171,000	66,000	0
Havre	542,000	1,112,000	1,033,000	72,000	7,000
Great Falls	37,000	179,000	179,000	0	0
Powder River	1,081,000	2,502,000	2,488,000	14,000	0
Billings	425,000	651,000	619,000	32,000	0
Big Dry	1,624,000	2,258,000	2,176,000	82,000	0
South Dakota					
South Dakota	281,000	3,410,000	3,410,000	0	0
North Dakota					
Dickinson	67,000	460,000	460,000	0	0
Total	8,362,000	16,699,000	16,083,000	549,000	67,000

Number of leases	Acres leased	Number of Wells[c]					
		Exploratory	Developmental	Producing	Capable of production	Other	Pending and approved abandonments
41	61,965	1	0	0	0	0	1
69	128,609	0	0	0	0	0	3
14	9,394	0	0	0	0	0	0
405	339,737	0	4	27	9	38	5
699	677,568	1	3	484	55	0	39
338	294,390	1	0	25	6	0	16
509	513,268	12	15	75	42	0	135
868	381,525	4	32	285	118	167	50
967	1,180,065	23	7	34	94	65	63
526	309,813	13	2	12	21	12	25
1,324	926,397	3	62	280	89	247	88
515	669,583	11	4	35	10	15	50
764	252,630	12	75	463	177	73	446
7,039	5,744,944	81	204	1,720	621	617	921

[a]All acreage figures except for the "acres leased" column are rounded to the nearest thousand. The subsurface mineral estate acreage is generally greater than the surface acreage because the federal government owns the mineral rights to some privately owned lands.

[b]"Acreage open/closed to leasing" is estimated. "Nondiscretionary closures" are areas closed to leasing by law, secretarial decision, or executive order. "Discretionary closures" result from decisions made as part of the agency's land use planning process.

[c]Columns for wells "Producing" or "Capable of Production" include oil and gas wells only. Wells capable of production are currently under suspension. The column for "Other" wells include injection, water supply, and oil and gas storage agreement wells. Well data for "Exploratory," "Developmental," and "Pending and Approved Abandonments" are for fiscal years 1986-88.

Table 2.7: Nevada

Resource area	Acreage[a]		Acreage open/closed to leasing[ab]		
	Surface	Subsurface	Open to leasing	Nondiscretionary closures	Discretionary closures
Shoshone-Eureka	4,366,000	4,366,000	4,201,000	0	165,000
Tonopah	6,306,000	6,306,000	5,582,000	0	724,000
Lahontan	2,455,000	2,455,000	2,021,000	81,000	434,000
Walker	1,925,000	1,925,000	1,799,000	125,000	126,000
Elko	3,134,000	3,134,000	3,079,000	0	55,000
Wells	4,275,000	4,275,000	4,129,000	0	145,000
Egan	3,842,000	3,842,000	3,588,000	0	255,000
Schell	4,239,000	4,239,000	3,814,000	0	425,000
Stateline	4,346,000	4,346,000	4,321,000	0	26,000
Caliente	6,380,000	6,380,000	3,272,000	3,035,000	73,000
Paradise-Denio	3,729,000	3,729,000	3,186,000	0	543,000
Sonoma-Gerlach	4,260,000	4,260,000	3,706,000	0	554,000
Total	49,257,000	49,257,000	42,698,000	3,241,000	3,525,000

Number of leases	Acres leased	Number of Wells[c]					
		Exploratory	Developmental	Producing	Capable of production	Other	Pending and approved abandonments
412	1,552,672	0	0	0	0	0	0
580	922,076	28	0	33	11	0	21
21	41,160	0	0	0	0	0	0
0	0	0	0	0	0	0	0
403	915,458	7	0	4	0	1	6
120	307,331	0	0	0	0	0	0
1,038	2,592,245	9	0	0	0	0	8
376	1,063,976	3	0	0	0	0	3
108	144,967	10	0	0	0	0	6
117	347,665	2	0	0	0	0	0
1	678	0	0	0	0	0	0
19	29,509	0	0	0	0	0	0
3,195	7,917,737	59	0	37	11	1	44

[a]All acreage figures except for the "acres leased" column are rounded to the nearest thousand. The subsurface mineral estate acreage is generally greater than the surface acreage because the federal government owns the mineral rights to some privately owned lands.

[b]"Acreage open/closed to leasing" is estimated. "Nondiscretionary closures" are areas closed to leasing by law, secretarial decision, or executive order. "Discretionary closures" result from decisions made as part of the agency's land use planning process.

[c]Columns for wells "Producing" or "Capable of Production" include oil and gas wells only. Wells capable of production are currently under suspension. The column for "Other" wells include injection, water supply, and oil and gas storage agreement wells. Well data for "Exploratory," "Developmental," and "Pending and Approved Abandonments" are for fiscal years 1986-88.

Table 2.8: New Mexico

Resource area	Acreage[a]		Acreage Open/Closed to Leasing[ab]		
	Surface	Subsurface	Open to leasing	Nondiscretionary closures	Discretionary closures
Rio Puerco	978,000	4,600,000	3,718,000	880,000	2,000
Farmington	1,508,000	5,700,000	5,615,000	40,000	45,000
Taos	564,000	4,500,000	4,242,000	240,000	18,000
Mimbres	3,045,000	4,700,000	3,420,000	1,280,000	0
White Sands	1,800,000	7,500,000	5,360,000	2,140,000	0
Socorro	1,520,000	7,600,000	4,450,000	3,150,000	0
Oklahoma City[d]	3,000	6,464,000	5,114,000	1,350,000	0
Roswell	1,367,000	1,900,000	1,300,000	599,000	1,000
Carlsbad	2,171,000	2,700,000	2,600,000	100,000	0
Total	12,956,000	45,664,000	35,819,000	9,779,000	66,000

Note: Oil and gas leasing and drilling activity includes Forest Service data.

Number of leases	Acres leased	Number of Wells[c]					
		Exploratory	Developmental	Producing	Capable of producing	Other	Pending and approved abandonments
496	463,000	9	6	23	42	24	65
3,411	2,000,000	48	638	6,095	1,444	674	680
369	500,000	0	0	6	5	0	1
158	286,486	6	0	0	0	0	72
191	392,365	3	0	0	0	0	25
320	927,541	3	0	0	0	0	15
1,987	987,846	0	356	4,373	1,008	692	495
2,363	1,789,153	161	67	1,462	655	316	214
5,003	2,128,262	196	444	7,112	1,203	1,350	678
14,298	9,474,653	426	1,511	19,071	4,357	3,056	2,245

[a]All acreage figures except for the "acres leased" column are rounded to the nearest thousand. The subsurface mineral estate acreage is generally greater than the surface acreage because the federal government owns the mineral rights to some privately owned lands.

[b]"Acreage open closed to leasing" is estimated. "Nondiscretionary closures" are areas closed to leasing by law, secretarial decision, or executive order. "Discretionary closures" result from decisions made as part of the agency's land use planning process.

[c]Columns for wells "Producing" or "Capable of Production" include oil and gas wells only. Wells capable of production are currently under suspension. The column for "Other" wells include injection, water supply, and oil and gas storage agreement wells. Well data for "Exploratory," "Developmental," and "Pending and Approved Abandonments" are for fiscal years 1986-88.

[d]Oklahoma City includes BLM lands in Oklahoma, Kansas, and Texas.

Table 2.9: Oregon and Washington

Resource area	Acreage[a]		Acreage open/closed to leasing[ab]		
	Surface	Subsurface	Open to leasing	Nondiscretionary closures	Discretionary closures
Oregon					
Three Rivers	1,709,000	2,216,000	2,114,000	102,000	0
Andrews	1,652,000	1,847,000	526,000	1,321,000	0
Tioga	101,000	103,000	103,000	0	0
Umpqua	122,000	123,000	123,000	0	0
Myrtlwood	106,000	110,000	110,000	0	0
South Valley	109,000	110,000	110,000	0	0
McKenzie	94,000	94,000	94,000	0	0
Coast Range	115,000	115,000	115,000	0	0
Klamath Falls	201,000	229,000	229,000	0	0
Lakeview	3,133,000	3,215,000	2,792,000	423,000	0
Butte Falls	209,000	210,000	210,000	0	0
Ashland	204,000	206,000	200,000	6,000	0
Grants Pass	247,000	247,000	241,000	6,000	0
Glendale	168,000	168,000	159,000	9,000	0
Central Oregon	752,000	1,215,000	1,215,000	0	0
Deschutes	852,000	1,066,000	1,062,000	4,000	0
North Umpqua	94,000	94,000	94,000	0	0
South Umpqua	111,000	111,000	111,000	0	0
Dillard	92,000	92,000	92,000	0	0
Drain	128,000	129,000	129,000	0	0
Santiam	88,000	132,000	132,000	0	0
Alsea	80,000	119,000	119,000	0	0
Tillamook	67,000	101,000	101,000	0	0
Yamhill	87,000	131,000	131,000	0	0
Clackamas	75,000	113,000	107,000	6,000	0
Baker	430,000	1,369,000	1,347,000	22,000	0
Malheur	1,722,000	1,922,000	1,620,000	269,000	33,000
Jordan	2,753,000	3,053,000	1,965,000	1,018,000	70,000
Washington					
Wenatchee	3,000	347,000	347,000	0	0
Border	308,000	478,000	464,000	7,000	8,000
Total	15,812,000	19,465,000	16,162,000	3,193,000	111,000

Number of leases	Acres leased	Number of Wells[c]					
		Exploratory	Developmental	Producing	Capable of production	Other	Pending and approved abandonments
3	2,239	0	0	0	0	0	0
0	0	0	0	0	0	0	0
4	4,610	0	0	0	0	0	0
6	14,887	0	0	0	0	0	0
2	5,544	0	0	0	0	0	0
16	27,193	0	0	0	0	0	0
13	20,653	0	0	0	0	0	0
4	6,826	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
5	14,564	0	0	0	0	0	0
1	1,121	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
87	181,286	0	0	0	0	0	0
37	77,694	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
2	2,880	0	0	0	0	0	0
13	13,229	0	0	0	0	0	0
12	25,139	0	0	0	0	0	0
3	2,284	0	0	0	0	0	0
18	24,000	0	0	0	0	0	0
24	29,985	0	0	0	0	0	0
3	9,590	0	0	0	0	0	0
63	137,280	0	0	0	0	0	0
1	480	0	0	0	0	0	0
0	0	0	0	0	0	0	0
475	648,600	1	0	0	0	1	0
43	56,400	0	0	0	0	0	0
835	1,306,484	1	0	0	0	1	0

[a]All acreage figures except for the "acres leased" column are rounded to the nearest thousand. The subsurface mineral estate acreage is generally greater than the surface acreage because the federal government owns the mineral rights to some privately owned lands.

[b]"Acreage open/closed to leasing" is estimated. "Nondiscretionary closures" are areas closed to leasing by law, secretarial decision, or executive order. "Discretionary closures" result from decisions made as part of the agency's land use planning process.

[c]Columns for wells "Producing" or "Capable of Production" include oil and gas wells only. Wells capable of production are currently under suspension. The column for "Other" wells include injection, water supply, and oil and gas storage agreement wells. Well data for "Exploratory," "Developmental," and "Pending and Approved Abandonments" are for fiscal years 1986-88.

Table 2.10: Utah

Resource area	Acreage[a]		Acreage open, closed to leasing[ab]		
	Surface	Subsurface	Open to leasing	Nondiscretionary closures	Discretionary closures
Bear River	997,000	1,449,000	1,449,000	0	0
Pony Express	1,991,000	2,074,000	2,036,000	38,000	0
Dixie	639,000	696,000	663,000	30,000	3,000
Kanab	1,794,000	1,955,000	1,390,000	565,000	0
Escalante	1,067,000	1,163,000	775,000	385,000	0
Beaver River	2,210,000	2,409,000	2,395,000	15,000	0
Warm Springs	2,227,000	2,427,000	2,204,000	223,000	0
House Range	2,245,000	2,447,000	2,274,000	151,000	22,000
Henry Mt.	1,938,000	2,112,000	1,626,000	427,000	59,000
Sevier River	720,000	785,000	785,000	0	0
San Juan	1,779,000	2,166,000	1,624,000	387,000	155,000
Grand	1,853,000	2,176,000	1,791,000	357,000	29,000
Price River	943,000	1,221,000	940,000	278,000	3,000
San Rafael	1,622,000	1,876,000	1,578,000	254,000	44,000
Diamond Mt.	667,000	667,000	667,000	0	0
Book Cliffs	1,080,000	1,314,000	1,262,000	52,000	0
Total	23,772,000	26,937,000	23,459,000	3,162,000	315,000

Number of leases	Acres leased	Number of Wells[c]					
		Exploratory	Developmental	Producing	Capable of production	Other	Pending and approved abandonments
12	17,198	7	0	1	1	8	28
359	559,551	2	0	0	0	0	13
20	15,949	1	0	0	0	0	6
102	146,544	1	0	0	0	0	0
167	325,515	0	0	5	0	1	1
57	90,135	0	0	0	0	0	1
56	183,839	0	0	0	0	0	3
161	369,925	0	0	0	0	0	4
269	521,193	4	0	0	0	0	10
260	448,940	0	0	0	0	0	1
920	879,109	65	95	94	39	20	129
1,137	954,253	6	53	253	157	65	246
949	1,025,273	2	0	13	17	4	52
355	498,156	2	3	0	20	1	9
671	590,015	0	21	168	58	53	12
1,137	879,788	4	105	638	265	158	59
6,632	7,505,383	94	277	1,172	557	310	574

[a]All acreage figures except for the "acres leased" column are rounded to the nearest thousand. The subsurface mineral estate acreage is generally greater than the surface acreage because the federal government owns the mineral rights to some privately owned lands.

[b]"Acreage open/closed to leasing" is estimated. "Nondiscretionary closures" are areas closed to leasing by law, secretarial decision, or executive order. "Discretionary closures" result from decisions made as part of the agency's land use planning process.

[c]Columns for wells "Producing" or "Capable of Production" include oil and gas wells only. Wells capable of production are currently under suspension. The column for "Other" wells include injection, water supply, and oil and gas storage agreement wells. Well data for "Exploratory," "Developmental," and "Pending and Approved Abandonments" are for fiscal years 1986-88.

Table 2.11: Wyoming

Resource area	Acreage[a]		Acreage open/closed to leasing[ab]		
	Surface	Subsurface	Open to leasing	Nondiscretionary closures	Discretionary closures
Platte River	1,399,000	4,662,000	4,661,000	1,000	0
Buffalo	799,000	3,001,000	2,971,000	30,000	0
Newcastle	302,000	1,616,000	1,615,000	0	1,000
Great Divide	4,000,000	5,000,000	4,880,000	120,000	0
Lander	2,198,000	2,770,000	2,689,000	59,000	22,000
Green River	3,264,000	3,369,000	3,093,000	258,000	18,000
Kemmerer	1,633,000	1,837,000	1,804,000	0	33,000
Pinedale	925,000	1,193,000	1,185,000	8,000	0
Grass Creek	1,500,000	1,200,000	1,147,000	52,000	1,000
Washakie	1,230,000	1,603,000	1,520,000	72,000	11,000
Cody	1,094,000	1,508,000	1,494,000	14,000	0
Total	18,344,000	27,759,000	27,059,000	614,000	86,000

Number of Leases	Acres leased	Number of Wells[c]					
		Exploratory	Developmental	Producing	Capable of production	Other	Pending and approved abandonments
3,797	2,209,526	71	311	2,037	921	1,481	190
5,718	2,826,215	131	466	1,770	829	1,217	1,056
3,813	1,502,000	41	274	1,062	324	700	260
2,913	2,310,000	21	70	482	259	275	209
2,108	1,672,000	19	9	740	262	328	169
3,255	2,986,000	38	99	682	94	350	219
1,539	1,518,000	17	18	251	107	117	78
923	871,426	20	24	684	157	524	112
1,274	1,095,000	51	4	789	121	648	61
1,319	693,000	58	3	424	134	145	113
1,342	883,158	69	5	1,068	241	633	133
28,001	18,566,325	536	1,283	9,989	3,449	6,418	2,600

[a]All acreage figures except for the "acres leased" column are rounded to the nearest thousand. The subsurface mineral estate acreage is generally greater than the surface acreage because the federal government owns the mineral rights to some privately owned lands.

[b]"Acreage open/closed to leasing" is estimated. "Nondiscretionary closures" are areas closed to leasing by law, secretarial decision, or executive order. "Discretionary closures" result from decisions made as part of the agency's land use planning process.

[c]Columns for wells "Producing" or "Capable of Production" include oil and gas wells only. Wells capable of production are currently under suspension. The column for "Other" wells include injection, water supply, and oil and gas storage agreement wells. Well data for "Exploratory," "Developmental," and "Pending and Approved Abandonments" are for fiscal years 1986-88.

Table 2.12: Eastern States

State	District Office	Acreage[a] Surface	Acreage[a] Subsurface	Acreage open/closed to leasing[ab] Open to leasing	Nondiscretionary closures	Discretionary closures
Ala.	Jackson	3,000	142,000	142,000	0	0
Ark.	Jackson	2,000	96,000	96,000	0	0
Conn.	Milwaukee	0	12,000	0	0	0
Del.	Milwaukee	0	5,000	0	0	0
Fla.	Jackson	2,000	575,000	575,000	0	0
Ga.	Jackson	0	82,000	0	0	0
Ill.	Milwaukee	0	4,000	4,000	0	0
Ind.	Milwaukee	0	18,000	0	0	0
Ia.	Milwaukee	0	3,000	0	0	0
Ky.	Jackson	0	24,000	0	0	0
La.	Jackson	2,000	38,000	38,000	0	0
Me.	Milwaukee	0	17,000	0	0	0
Md.	Milwaukee	0	15,000	0	0	0
Mass.	Milwaukee	0	0	0	0	0
Mich.	Milwaukee	1,000	137,000	137,000	0	0
Minn.	Milwaukee	44,000	241,000	241,000	0	0
Miss.	Jackson	2,000	87,000	87,000	0	0
Mo.	Milwaukee	[d]	14,000	14,000	0	0
N.H.	Milwaukee	0	1,000	0	0	0
N.J.	Milwaukee	0	0	0	0	0
N.Y.	Milwaukee	0	73,000	0	0	0
N.C.	Jackson	0	38,000	0	0	0
Ohio	Milwaukee	[d]	80,000	0	0	0
Penn.	Milwaukee	0	31,000	0	0	0
R.I.	Milwaukee	0	10,000	0	0	0
S.C.	Jackson	0	56,000	0	0	0
Tenn.	Jackson	0	66,000	66,000	0	0
Vt.	Milwaukee	0	0	0	0	0
Va.	Jackson	0	39,000	0	0	0
W.Va.	Milwaukee	0	15,000	0	0	0
Wis.	Milwaukee	4,000	53,000	53,000	0	0
Total		60,000	1,972,000	1,453,000	0	0

Number of leases	Acres leased	Number of Wells[c]					
		Exploratory	Developmental	Producing	Capable of production	Other	Pending and approved abandonments
129	15,451	0	0	1	3	0	0
46	8,866	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
29	3,364	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
187	18,820	0	13	33	13	5	1
0	0	0	0	0	0	0	0
2	3,570	0	0	1	1	82	1
0	0	0	0	0	0	0	0
62	5,257	6	1	74	6	701	5
0	0	0	0	0	0	0	0
102	9,886	0	0	3	0	1	0
1	1,325	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
2	937	2	0	0	0	0	2
0	0	0	0	0	0	0	0
1	60	0	0	3	0	33	0
0	0	0	0	0	0	19	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
4	1,024	0	0	0	0	0	0
565	68,560	8	14	115	23	841	9

[a]All acreage figures except for the "acres leased" column are rounded to the nearest thousand. The subsurface mineral estate acreage is generally greater than the surface acreage because the federal government owns the mineral rights to some privately owned lands.

[b]"Acreage open/closed to leasing" is estimated. "Nondiscretionary closures" are areas closed to leasing by law, secretarial decision, or executive order. "Discretionary closures" result from decisions made as part of the agency's land use planning process. Some eastern states have no planning documents, and no determination has been made regarding areas open or closed to leasing. This is indicated in these columns with a zero.

[c]Columns for wells "Producing" or "Capable of Production" include oil and gas wells only. Wells capable of production are currently under suspension. The column for "Other" wells include injection, water supply, and oil and gas storage agreement wells. Well data for "Exploratory," "Developmental," and "Pending and Approved Abandonments" are for fiscal years 1986-88.

[d]Less than 500 acres.

SECTION 3

STATUS OF FOREST SERVICE OIL AND GAS LEASING/DRILLING ACTIVITY BY REGION AND STATE THROUGH FISCAL YEAR 1988

Table 3.1: Region 1—Idaho and Montana

	Acreage[a]		Acreage open/closed to leasing[a,b]		
National forests	Surface	Subsurface	Open to leasing	Nondiscretionary closures	Discretionary closures
Idaho					
Clearwater	1,759,000	1,759,000	1,741,000	18,000	0
Coeur d'Alene	725,000	725,000	2,827,000	385,000	0
Kaniksu	1,622,000	1,622,000	see Coeur	see Coeur	0
St. Joe	865,000	865,000	see Coeur	see Coeur	0
Nezperce	2,223,000	2,223,000	1,334,000	889,000	0
Montana					
Beaverhead	2,129,000	2,129,000	1,788,000	341,000	0
Bitterroot	1,578,000	1,578,000	757,000	821,000	0
Custer	1,186,000	1,186,000	961,000	225,000	0
Deerlodge	1,194,000	1,194,000	1,134,000	60,000	0
Flathead	2,353,000	2,353,000	1,106,000	1,177,000	71,000
Gallatin	1,738,000	1,738,000	991,000	747,000	0
Helena	977,000	977,000	879,000	98,000	0
Kootenai	1,822,000	1,822,000	1,640,000	182,000	0
Lewis and Clark	1,844,000	1,844,000	1,438,000	406,000	0
Lolo	2,112,000	2,112,000	1,753,000	359,000	0
Total	24,127,000	24,127,000	18,349,000	5,708,000	71,000

Number of leases	Acres leased	Number of Wells[c]					
		Exploratory	Developmental	Producing	Capable of production	Other	Pending and approved abandonments
0	0	0	0	0	0	0	0
2	9,898	0	0	0	0	0	0
see Coeur	see Coeur	0	0	0	0	0	0
see Coeur	see Coeur	0	0	0	0	0	0
0	0	0	0	0	0	0	0
56	93,015	2	0	0	0	0	2
0	0	0	0	0	0	0	0
976	974,114	48	23	625	169	300	293
7	3,890	0	0	0	0	0	0
605	1,149,079	0	0	0	0	0	0
78	113,162	0	0	0	0	0	2
90	186,415	0	0	0	0	0	2
147	437,741	0	0	0	0	0	0
120	268,970	1	0	0	1	0	4
74	88,651	0	0	0	0	0	0
2,155	3,324,935	51	23	625	170	300	303

[a]All acreage figures except "acres leased" column rounded to the nearest thousand. The figures provided are the best estimates the Forest Service has available.

[b]"Acreage open closed to leasing" is estimated. "Nondiscretionary closures" are areas closed to leasing by law, secretarial decision, or executive order. "Discretionary closures" are based on land use plan decisions.

[c]Columns for wells "Producing" or "Capable of Production" include oil and gas wells only. Wells capable of production are currently under suspension. The column for "Other" wells include injection, water supply, and oil and gas storage agreement wells. Well data for "Exploratory," "Developmental," and "Pending and Approved Abandonments" are for fiscal years 1986-88.

Table 3.2: Region 2--Colorado, Nebraska, South Dakota, and Wyoming

National forests	Acreage[a] Surface	Acreage[a] Subsurface	Acreage open/closed to leasing[ab] Open to leasing	Nondiscretionary closures	Discretionary closures
Colorado					
Arapaho	1,216,000	1,097,000	1,188,000	490,000	207,000
Roosevelt	788,000	788,000	see Arapaho	see Arapaho	see Arapaho
Grand Mesa	346,000	346,000	2,066,000	502,000	384,000
Uncompahgre	944,000	944,000	see GM	see GM	see GM
Gunnison	1,662,000	1,662,000	see GM	see GM	see GM
Pike	1,638,000	1,369,000	2,213,000	249,000	25,000
San Isabel	1,118,000	1,118,000	see Pike	see Pike	see Pike
Rio Grande	1,855,000	1,855,000	1,224,000	278,000	352,000
Routt	1,127,000	1,127,000	924,000	158,000	45,000
San Juan	1,882,000	1,882,000	1,336,000	358,000	188,000
White River	1,963,000	1,963,000	923,000	569,000	471,000
Nebraska					
Nebraska	944,000	241,000	350,000	0	7,000
Samuel R. McKelvie	116,000	116,000	see Nebra.	see Nebra.	see Nebra.
South Dakota					
Black Hills	1,236,000	1,236,000	1,224,000	12,000	0
Wyoming					
Bighorn	1,108,000	1,108,000	720,000	188,000	199,000
Medicine Bow	1,666,000	1,103,000	1,048,000	55,000	0
Shoshone	2,433,000	2,433,000	462,000	1,387,000	584,000
Total	22,042,000	20,388,000	13,678,000	4,246,000	2,462,000

Number of leases	Acres leased	Number of Wells[c]					
		Exploratory	Developmental	Producing	Capable of production	Other	Pending and approved abandonments
206	148,339	10	30	38	5	0	20
see Arapaho	see Arapaho	see Arapaho	see Arapaho	see Arapaho	see Arapaho	0	see Arapaho
261	491,410	15	10	14	14	0	5
see GM	see GM	see GM	see GM	see GM	see GM	see GM	see GM
see GM	see GM	see GM	see GM	see GM	see GM	see GM	see GM
424	340,133	15	50	347	0	206	45
see Pike	see Pike	see Pike	see Pike	see Pike	see Pike	see Pike	see Pike
160	817,523	0	0	0	0	0	2
178	273,651	3	1	3	0	0	3
299	541,157	3	25	17	13	4	8
259	342,876	20	50	115	18	18	7
171	204,987	10	5	7	0	2	6
see Nebr.	see Nebr.	see Nebr.	see Nebr.	see Nebr.	see Nebr.	see Nebr.	see Nebr.
37	58,786	0	0	0	0	0	0
17	59,785	1	0	0	0	0	0
1,391	579,474	30	70	412	0	6	40
281	401,842	3	0	0	0	0	3
3,684	4,259,963	110	241	953	50	236	139

[a]All acreage figures except "acres leased" column rounded to the nearest thousand. The figures provided are the best estimates the Forest Service has available.

[b]"Acreage open/closed to leasing" is estimated. "Nondiscretionary closures" are areas closed to leasing by law, secretarial decision, or executive order. "Discretionary closures" are based on land use plan decisions.

[c]Columns for wells "Producing" or "Capable of Production" include oil and gas wells only. Wells capable of production are currently under suspension. The column for "Other" wells include injection, water supply, and oil and gas storage agreement wells. Well data for "Exploratory," "Developmental," and "Pending and Approved Abandonments" are for fiscal years 1986-88.

Table 3.3: Region 3--Arizona and New Mexico

National forests	Acreage[a]		Acreage open/closed to leasing[ab]		
	Surface	Subsurface	Open to leasing	Nondiscretionary closures	Discretionary closures
Arizona					
Apache	1,803,000	1,803,000	2,240,000	49,000	172,000
Sitgreaves	817,000	659,000	see Apache	see Apache	see Apache
Coconino	1,841,000	1,841,000	1,638,000	147,000	55,000
Coronado	1,779,000	1,779,000	1,352,000	427,000	0
Kaibab	1,556,000	1,556,000	1,447,000	109,000	0
Prescott	1,238,000	1,238,000	1,127,000	111,000	0
Tonto	2,873,000	2,873,000	2,270,000	603,000	0
New Mexico					
Carson	1,391,000	1,209,000	1,076,000	133,000	0
Cibola	1,897,000	1,488,000	1,354,000	134,000	0
Gila	2,705,000	2,705,000	1,894,000	784,000	27,000
Lincoln	1,103,000	1,037,000	933,000	104,000	0
Santa Fe	1,569,000	1,430,000	1,144,000	286,000	0
Total	20,572,000	19,618,000	16,475,000	2,887,000	254,000

Number of leases	Acres leased	Number of Wells[c]					
		Exploratory	Developmental	Producing	Capable of production	Other	Pending and approved abandonments
192	945,650	0	0	0	0	0	0
see Apache	see Apache	0	0	0	0	0	0
2	2,580	0	0	0	0	0	1
48	85,007	0	0	0	0	0	0
32	82,837	0	0	0	0	0	1
0	0	0	0	0	0	0	0
1	1,280	0	0	0	0	0	0
160	366,199	1	79	393	10	2	15
157	227,649	0	0	22	0	0	0
114	512,563	0	0	0	0	0	1
129	202,248	0	0	0	0	0	1
123	148,467	0	0	100	0	0	0
958	2,574,480	1	79	515	10	2	19

[a]All acreage figures except "acres leased" column rounded to the nearest thousand. The figures provided are the best estimates the Forest Service has available.

[b]"Acreage open/closed to leasing" is estimated. "Nondiscretionary closures" are areas closed to leasing by law, secretarial decision, or executive order. "Discretionary closures" are based on land use plan decisions.

[c]Columns for wells "Producing" or "Capable of Production" include oil and gas wells only. Wells capable of production are currently under suspension. The column for "Other" wells include injection, water supply, and oil and gas storage agreement wells. Well data for "Exploratory," "Developmental," and "Pending and Approved Abandonments" are for fiscal years 1986-88.

Table 3.4: Region 4—Idaho, Nevada, Utah, and Wyoming

National forests	Acreage[a]		Acreage open/closed to leasing[ab]		
	Surface	Subsurface	Open to leasing	Nondiscretionary closures	Discretionary closures
Idaho					
Boise	2,649,000	2,649,000	2,490,000	79,000	79,000
Caribou	987,000	987,000	948,000	39,000	0
Challis	2,464,000	2,464,000	1,700,000	764,000	0
Payette	2,324,000	2,324,000	1,511,000	813,000	0
Salmon	1,771,000	1,771,000	1,346,000	425,000	0
Sawtooth	1,805,000	1,805,000	1,625,000	181,000	0
Targhee	1,643,000	1,643,000	1,528,000	115,000	0
Nevada					
Humboldt	2,469,000	2,469,000	2,395,000	74,000	0
Toiyabe	3,208,000	3,208,000	3,048,000	160,000	0
Utah					
Ashley	1,384,000	1,384,000	1,107,000	277,000	0
Dixie	1,884,000	1,884,000	1,790,000	94,000	0
Fishlake	1,425,000	1,425,000	1,425,000	0	0
Manti-LaSal	1,265,000	1,265,000	1,214,000	51,000	0
Uinta	813,000	813,000	764,000	49,000	0
Wasatch	885,000	885,000	1,076,000	437,000	47,000
Cache	675,000	675,000	see Wasatch	see Wasatch	see Wasatch
Wyoming					
Bridger	1,734,000	1,734,000	2,040,000	1,326,000	34,000
Teton	1,666,000	1,666,000	see Bridger	see Bridger	see Bridger
Total	31,051,000	31,051,000	26,007,000	4,884,000	160,000

Number of leases	Acres leased	Number of Wells[c]					
		Exploratory	Developmental	Producing	Capable of production	Other	Pending and approved abandonments
0	0	0	0	0	0	0	0
63	156,402	0	0	0	0	0	2
20	118,961	0	0	0	0	0	0
5	36,011	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
127	263,813	0	0	0	0	0	3
24	48,246	0	0	0	0	0	0
4	9,041	0	0	0	0	0	0
97	249,194	0	0	0	0	0	0
94	231,046	0	0	13	9	11	0
29	139,868	0	0	0	0	1	2
187	446,392	0	0	6	0	0	17
21	36,225	0	0	0	0	0	0
89	144,197	8	14	24	0	1	6
see Wasatch	see Wasatch	see Wasatch	see Wasatch	see Wasatch	see Wasatch	see Wasatch	see Wasatch
326	375,577	1	0	11	5	0	138
see Bridger	see Bridger	see Bridger	see Bridger	see Bridger	see Bridger	see Bridger	see Bridger
1,086	2,254,973	9	14	54	14	13	168

[a]All acreage figures except "acres leased" column rounded to the nearest thousand. The figures provided are the best estimates the Forest Service has available.

[b]"Acreage open/closed to leasing" is estimated. "Nondiscretionary closures" are areas closed to leasing by law, Secretarial decision, or Executive order. "Discretionary closures" are based on land use plan decisions.

[c]Columns for wells "Producing" or "Capable of Production" include oil and gas wells only. Wells capable of production are currently under suspension. The column for "Other" wells include injection, water supply, and oil and gas storage agreement wells. Well data for "Exploratory," "Developmental," and "Pending and Approved Abandonments" are for fiscal years 1986-88.

Table 3.5: Region 5--California

National forests	Acreage[a] Surface	Subsurface	Acreage open/closed to leasing[ab] Open to leasing	Nondiscretionary closures	Discretionary closures
California					
Angeles	654,000	654,000	177,000	477,000	0
Cleveland	421,000	421,000	354,000	67,000	0
Eldorado	675,000	675,000	533,000	122,000	20,000
Inyo	1,897,000	1,897,000	949,000	740,000	209,000
Klamath	1,707,000	1,707,000	1,127,000	393,000	188,000
Lassen	1,056,000	1,056,000	866,000	74,000	116,000
Los Padres	1,753,000	1,753,000	719,000	1,034,000	0
Mendicino	884,000	884,000	725,000	141,000	18,000
Modoc	1,664,000	1,664,000	1,564,000	83,000	17,000
Plumas	1,163,000	1,163,000	1,047,000	35,000	81,000
San Bernardino	659,000	659,000	501,000	112,000	46,000
Sequoia	1,124,000	1,124,000	832,000	292,000	0
Shasta	1,143,000	1,143,000	1,682,000	502,000	0
Trinity	1,041,000	1,041,000	see Shasta	see Shasta	see Shasta
Sierra	1,303,000	1,303,000	691,000	586,000	26,000
Six Rivers	988,000	988,000	850,000	138,000	0
Stanislaus	899,000	899,000	612,000	216,000	72,000
Calaveras Bigtree	[d]	[d]	see Stan.	see Stan.	see Stan.
Tahoe	827,000	827,000	777,000	17,000	33,000
Total	19,858,000	19,858,000	14,006,000	5,029,000	826,000

Number of leases	Acres leased	Number of Wells[c]					
		Exploratory	Developmental	Producing	Capable of production	Other	Pending and approved abandonments
33	22,500	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
87	108,000	1	0	157	0	0	150
0	0	0	0	0	0	0	0
1	8,000	0	0	0	0	0	0
0	0	0	0	0	0	0	0
18	31,200	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
139	169,700	1	0	157	0	0	150

[a]All acreage figures except "acres leased" column rounded to the nearest thousand. The figures provided are the best estimates the Forest Service has available.

[b]"Acreage open/closed to leasing" is estimated. "Nondiscretionary closures" are areas closed to leasing by law, secretarial decision, or executive order. "Discretionary closures" are based on land use plan decisions.

[c]Columns for wells "Producing" or "Capable of Production" include oil and gas wells only. Wells capable of production are currently under suspension. The column for "Other" wells include injection, water supply, and oil and gas storage agreement wells. Well data for "Exploratory," "Developmental," and "Pending and Approved Abandonments" are for fiscal years 1986-88.

[d]Less than 500 acres.

Table 3.6: Region 6--Oregon and Washington

National forests	Acreage[a]		Acreage Open/Closed to Leasing[ab]		
	Surface	Subsurface	Open to leasing	Nondiscretionary closures	Discretionary closures
Oregon					
Deschutes	1,605,000	1,605,000	1,268,000	177,000	161,000
Fremont	1,200,000	1,200,000	1,116,000	24,000	60,000
Malheur	1,462,000	1,462,000	1,345,000	88,000	29,000
Mt. Hood	1,061,000	1,061,000	700,000	223,000	138,000
Ochoco	845,000	845,000	710,000	34,000	101,000
Rogue River	629,000	629,000	440,000	88,000	101,000
Siskiyou	1,094,000	1,094,000	788,000	263,000	44,000
Siuslaw	629,000	629,000	528,000	50,000	50,000
Umatilla	1,403,000	1,403,000	1,010,000	337,000	56,000
Umpqua	985,000	985,000	847,000	108,000	30,000
Wallowa	991,000	991,000	1,377,000	835,000	45,000
Whitman	1,266,000	1,266,000	see Wallowa	see Wallowa	see Wallowa
Williamette	1,675,000	1,675,000	1,139,000	385,000	151,000
Winema	1,038,000	1,038,000	747,000	93,000	197,000
Washington					
Colville	947,000	947,000	843,000	28,000	76,000
Gifford Pinochet	1,292,000	1,292,000	698,000	284,000	310,000
Mt. Baker	1,281,000	1,281,000	706,000	1,185,000	631,000
Snoqualmie	1,241,000	1,241,000	see Mt. Bak.	see Mt. Baker	see Mt. Baker
Okanogan	1,500,000	1,500,000	810,000	555,000	135,000
Olympia	643,000	643,000	444,000	90,000	109,000
Wenatchee	1,659,000	1,659,000	680,000	647,000	332,000
Total	24,446,000	24,446,000	16,196,000	5,494,000	2,756,000

Number of leases	Acres leased	Number of Wells[c] Exploratory	Developmental	Producing	Capable of production	Other	Pending and approved abandonments
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
11	41,831	0	0	0	0	0	0
0	0	0	0	0	0	0	0
71	158,030	0	0	0	0	0	0
18	34,621	0	0	0	0	0	0
0	0	0	0	0	0	0	0
4	3,068	0	0	0	0	0	0
21	116,891	0	0	0	0	0	0
8	20,312	0	0	0	0	0	0
1	136	0	0	0	0	0	0
0	0	0	0	0	0	0	0
4	8,455	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
31	21,031	0	0	0	0	0	0
3	4,059	0	0	0	0	0	0
see Mt. Bak.	see Mt. Bak.	0	0	0	0	0	0
1	3,200	0	0	0	0	0	0
2	5,555	0	0	0	0	0	0
26	71,836	0	0	0	0	0	0
201	489,025	0	0	0	0	0	0

[a]All acreage figures except "acres leased" column rounded to the nearest thousand. The figures provided are the best estimates the Forest Service has available.

[b]"Acreage open/closed to leasing" is estimated. "Nondiscretionary closures" are areas closed to leasing by law, secretarial decision, or executive order. "Discretionary closures" are based on land use plan decisions.

[c]Columns for wells "Producing" or "Capable of Production" include oil and gas wells only. Wells capable of production are currently under suspension. The column for "Other" wells include injection, water supply, and oil and gas storage agreement wells. Well data for "Exploratory," "Developmental," and "Pending and Approved Abandonments" are for fiscal years 1986-88.

Table 3.7: Region 8--Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, Puerto Rico, South Carolina, Tennessee, Texas, and Virgina

	Acreage[a]		Acreage open/closed to leasing[ab]		
National forests	Surface	Subsurface[d]	Open to leasing	Nondiscretionary closures	Discretionary closures
Alabama					
William B. Bankhead	181,000	181,000	532,000	117,000	0
Conecuh	83,000	83,000	see Bankhead	see Bankhead	see Bankhead
Talladega	374,000	374,000	see Bankhead	see Bankhead	see Bankhead
Tuskegee	11,000	11,000	see Bankhead	see Bankhead	see Bankhead
Arkansas					
Ouachita	1,592,000	1,592,000	1,481,000	80,000	32,000
Ozark	1,120,000	1,120,000	1,061,000	80,000	0
St. Francis	21,000	21,000	see Ozark	see Ozark	see Ozark
Florida					
Apalachicola	559,000	559,000	503,000	45,000	11,000
Choctawhatchee	1,000	1,000	1,000	[e]	0
Ocala	382,000	382,000	344,000	34,000	4,000
Osceola	158,000	158,000	134,000	19,000	5,000
Georgia					
Chattahoochee	748,000	748,000	814,000	0	43,000
Oconee	109,000	109,000	see Chatt.	see Chatt.	see Chatt.
Kentucky					
Daniel Boone	666,000	666,000	393,000	53,000	220,000
Louisiana					
Kisatchie	600,000	600,000	480,000	12,000	108,000
Mississippi					
Bienville	179,000	179,000	1,102,000	11,000	31,000
Delta	60,000	60,000	see Bien.	see Bien.	see Bien.
De Soto	501,000	501,000	see Bien.	see Bien.	see Bien.
Holly Springs	152,000	152,000	see Bien.	see Bien.	see Bien.
Homochitto	189,000	189,000	see Bien.	see Bien.	see Bien.
Tombigbee	67,000	67,000	see Bien.	see Bien.	see Bien.

Number of leases	Acres leased	Number of Wells[c]					
		Exploratory	Developmental	Producing	Capable of production	Other	Pending and approved abandonments
137	167,518	0	0	0	0	0	2
see Bankhead	see Bankhead	0	0	0	0	0	0
see Bankhead	see Bankhead	0	0	0	0	0	0
see Bankhead	see Bankhead	0	0	0	0	0	0
365	396,386	0	0	0	0	0	1
435	369,385	0	0	53	0	0	0
see Ozark	see Ozark	0	0	0	0	0	0
46	129,351	0	0	0	0	0	0
see Apalach.	see Apalach.	0	0	0	0	0	0
see Apalach.	see Apalach.	0	0	0	0	0	0
see Apalach.	see Apalach.	0	0	0	0	0	0
40	80,160	0	0	0	0	0	0
see Chatt.	see Chatt.	0	0	0	0	0	0
93	53,868	0	0	17	0	0	0
231	195,826	0	0	18	0	0	0
1,002	610,093	0	0	202	0	0	0
see Bien.	see Bien.	0	0	0	0	0	0
see Bien.	see Bien.	0	0	0	0	0	0
see Bien.	see Bien.	0	0	0	0	0	0
see Bien.	see Bien.	0	0	0	0	0	0
see Bien.	see Bien.	0	0	0	0	0	0

National forests	Acreage[a] Surface	Subsurface[d]	Acreage Open/Closed to Leasing[ab] Open to leasing	Nondiscretionary closures	Discretionary closures
North Carolina					
Croatan	157,000	157,000	104,000	41,000	59,000
Nantahala	517,000	517,000	578,000	91,000	345,000
Pisgah	497,000	497,000	see Nant.	see Nant.	see Nant.
Uwharrie	47,000	47,000	see Croatan	see Croatan	see Croatan
Puerto Rico					
Caribbean	28,000	28,000	28,000	0	0
South Carolina					
Francis Marion	250,000	250,000	210,000	10,000	30,000
Sumter	355,000	355,000	327,000	11,000	18,000
Tennessee					
Cherokee	626,000	626,000	419,000	38,000	169,000
Texas					
Angelina	153,000	153,000	584,000	51,000	0
Davy Crockett	163,000	163,000	see Angel.	see Angel.	see Angel.
Sabine	158,000	158,000	see Angel.	see Angel.	see Angel.
Sam Houston	161,000	161,000	see Angel.	see Angel.	see Angel.
Virginia					
George Washington	1,057,000	1,057,000	920,000	42,000	95,000
Jefferson	702,000	702,000	625,000	63,000	14,000
Total	12,624,000	12,624,000	10,640,000	798,000	1,187,000

Number of leases	Acres leased	Number of Wells[c]					
		Exploratory	Developmental	Producing	Capable of production	Other	Pending and approved abandonments
19	23,891	0	0	0	0	0	0
see Croatan	see Croatan	0	0	0	0	0	0
see Croatan	see Croatan	0	0	0	0	0	0
see Croatan	see Croatan	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
11	20,642	0	0	0	0	0	0
266	186,555	0	0	0	0	1	0
see Angel.	see Angel.	0	34	27	5	0	0
see Angel.	see Angel.	2	5	6	4	1	0
see Angel.	see Angel.	0	0	1	0	0	0
122	246,399	0	0	0	0	0	0
46	47,883	0	0	0	0	0	0
2,813	2,527,957	2	39	324	9	2	3

[a]All acreage figures except "acres leased" column rounded to the nearest thousand. The figures provided are the best estimates the Forest Service has available.

[b]"Acreage open/closed to leasing" is estimated. "Nondiscretionary closures" are areas closed to leasing by law, secretarial decision, or executive order. "Discretionary closures" are based on land use plan decisions.

[c]Columns for wells "Producing" or "Capable of Production" include oil and gas wells only. Wells capable of production are currently under suspension. The column for "Other" wells include injection, water supply, and oil and gas storage agreement wells. Well data for "Exploratory," "Developmental," and "Pending and Approved Abandonments" are for fiscal years 1986-88.

[d]Figures indicate subsurface mineral estate the Forest Service owns or plans to acquire over the next 5 years. A small percentage of the subsurface mineral estate acreage will remain in private ownership.

[e]Less than 500 acres.

Table 3.8: Region 9--Illinois, Ohio, Indiana, Michigan, Minnesota, New Hampshire and Maine, New York, Pennsylvania, Vermont, West Virginia and Wisconsin

	Acreage[a]		Acreage Open/Closed to Leasing[ab]		
National forests	Surface	Subsurface	Open to leasing	Nondiscretionary closures	Discretionary closures
Illinois					
Shawnee	255,000	74,000	58,000	0	16,000
Ohio					
Wayne	179,000	162,000	162,000	0	0
Indiana					
Hoosier	188,000	14,000	12,000	2,000	0
Michigan					
Hiawatha	881,000	606,000	539,000	24,000	42,000
Huron	432,000	224,000	387,000	4,000	4,000
Manistee	532,000	171,000	see Huron	see Huron	see Huron
Ottawa	953,000	844,000	844,000	0	0
Minnesota					
Chippewa	662,000	299,000	281,000	0	18,000
Superior	2,056,000	1,105,000	530,000	575,000	0
Montana					
Mark Twain	1,457,000	85,000	77,000	3,000	4,000
New Hampshire/Maine					
White Mountain	734,000	13,000	8,000	2,000	3,000
New York					
Finger Lakes	13,000	0	0	0	0
Pennsylvania					
Allegheny	510,000	482,000	323,000	159,000	0
Vermont					
Green Mountain	325,000	36,000	15,000	7,000	14,000

Number of leases	Acres leased	Number of Wells[c]					
		Exploratory	Developmental	Producing	Capable of production	Other	Pending and approved abandonments
0	0	0	0	0	0	0	0
101	25,677	0	0	12	12	0	0
0	0	0	0	0	0	0	0
31	94,124	0	0	0	0	0	0
580	477,619	10	5	24	5	1	0
see Huron	see Huron	see Huron	0	0	0	0	0
2	2,146	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	1	0	0	0	5	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
6	2,997	0	0	33	0	0	0
0	0	0	0	0	0	0	0

National forests	Acreage[a]		Acreage open/closed to leasing[ab]		
	Surface	Subsurface	Open to leasing	Nondiscretionary closures	Discretionary closures
West Virginia					
Monongahela	878,000	377,000	324,000	53,000	0
Wisconsin					
Chequamegon	850,000	290,000	278,000	6,000	6,000
Nicolet	658,000	268,000	255,000	13,000	0
Total	11,563,000	5,050,000	4,093,000	848,000	107,000

Table 3.9: Region 10--Alaska

National forests	Acreage[a]		Acreage open/closed to leasing[ab]		
	Surface	Subsurface	Open to leasing	Nondiscretionary closures	Discretionary closures
Alaska					
Chugach	5,977,000	5,977,000	4,244,000	1,733,000	0
Tongass	16,773,000	16,773,000	11,406,000	5,367,000	0
Total	22,750,000	22,750,000	15,650,000	7,100,000	0

Number of leases	Acres leased	Number of Wells[c]					
		Exploratory	Developmental	Producing	Capable of production	Other	Pending and approved abondonments
296	343,986	2	1	10	7	0	0
19	51,068	0	0	0	0	2	0
0	0	0	0	0	0	0	0
1,035	997,617	13	6	79	24	8	0

Number of leases	Acres leased	Number of Wells[c]					
		Exploratory	Developmental	Producing	Capable of production	Other	Pending and approved abandonments
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

[a]All acreage figures except "acres leased" column rounded to the nearest thousand. The figures provided are the best estimates the Forest Service has available.

[b]"Acreage open/closed to leasing" is estimated. "Nondiscretionary closures" are areas closed to leasing by law, secretarial decision, or executive order. "Discretionary closures" are based on land use plan decisions.

[c]Columns for wells "Producing" or "Capable of Production" include oil and gas wells only. Wells capable of production are currently under suspension. The column for "Other" wells include injection, water supply, and oil and gas storage agreement wells. Well data for "Exploratory," "Developmental," and "Pending and Approved Abandonments" are for fiscal years 1986-88.

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